

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/083060 A1

(51) International Patent Classification⁷: C12N 5/08, 5/10

(21) International Application Number:
PCT/JP2004/016276

(22) International Filing Date: 27 October 2004 (27.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-056551 1 March 2004 (01.03.2004) JP

(71) Applicant (for all designated States except US): KI-TAKYUSHU FOUNDATION FOR THE ADVANCEMENT OF INDUSTRY, SCIENCE AND TECHNOLOGY [JP/JP]; 2-1, Hibikino, Wakamatsu-ku, Kitakyushu-shi, Fukuoka 8080135 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KAWAHARA, Hiroharu [JP/JP]; 3-4-203, Higashijounomachi, Kokurakitaku, Kitakyushu-shi, Fukuoka 8020054 (JP).

(74) Agents: YAGUCHI, Taro et al.; Omori And Yaguchi, 4th Floor, Matrice Bldg., 2-13-7, Minamiaoyama, Minato-ku, Tokyo 1070062 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with (an) indication(s) in relation to deposited biological material furnished under Rule 13bis separately from the description

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HUMAN CELL STRAINS FOR PROTEIN PRODUCTION, PROVIDED BY SELECTING STRAINS WITH HIGH INTRACELLULAR PROTEIN AND MUTATING WITH CARCINOGENS

(57) Abstract: A novel human cell strain enabling the continuous production of a desired protein with high efficiency, comprising a novel human cell strain established by transforming a human cell strain whose total intracellular protein weight is 0.1 to 1 mg per 1,000,000 cells; with the novel human cell strain being further characterized in that after a gene encoding a desired protein is transfected into it, the transfected cell is subsequently cultured.



WO 2005/083060 A1